NOT MEASUREMENT SENSITIVE

MIL-STD 2045-17508-6
26 July 1994

DRAFT
MILITARY STANDARD

Information Technology
DOD Standardized Profiles AFT1(D)

FILE TRANSFER, ACCESS, AND MANAGEMENT

Part 6: AFT3 - File Management Service

AMSC: N/A AREA: DCPS

Foreword

This military standard is approved for use by all Departments and Agencies of the Department of Defense (DOD).

Beneficial comments (recommendations, additions, deletions) and any pertinent data that may be of use in improving this MIL-STD should be addressed to the:

Joint Interoperability and Engineering Organization (JIEO)
ATTN: TBBF
Fort Monmouth, New Jersey 07703-5613

by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this MIL-STD or by memorandum.

This MIL-STD 2045-17508 series DOD Standardized Profile (DSP) is a functional standard produced by the Data Communications Protocol Standards (DCPS) Technical Management Panel (DTMP). DTMP functional standards are functional groupings of base standards. Referenced base standards may be commercial, DOD or de facto standards, although International Standards (produced by ISO, CCITT (now ITU-T), and other bodies) are preferred when possible.

This Defense Standardized Profile (DSP) is a functional DOD Data Communications Protocol Standard (DCPS) produced by the DCPS Technical Management Panel (DTMP). The MIL-STD-2045 document series was established within the DCPS Standardization Area to allow for the enhancement of commercial standards or the development of standards that are unique to DoD.

The MIL-STD-2045-10000 series, MIL-STD-2045-10000 to MIL-STD-2045-19999 inclusive, will be used to describe how DoD will implement commercial, international, national, federal, or military standards within the functional profile concept to provide required network services. The Government Open Systems Interconnection Profiles (GOSIP) will serve as the base for developing the 10000 series with DoD enhancements, unique military standards, and interim standards being used only when necessary.

The MIL-STD-2045-20000 series, MIL-STD-2045-20000 to MIL-STD-2045-29999 inclusive, will be used to describe DoD enhancements and extensions to existing commercial, international, national, or federal standards.

The MIL-STD-2045-30000 series, MIL-STD-2045-30000 to MIL-STD-2045-39999 inclusive, will be used to describe protocols and services unique to DoD that will not be supported by commercial, international, national, or federal standards.

The MIL-STD-2045-40000 series, MIL-STD-2045-40000 to MIL-STD-2045-49999 inclusive, will be used to document interim standards. Interim standards document protocols and services needed by DoD until these protocols and services are described in either a GOSIP or a MIL-STD-2045-20000 or -30000 series standard.

The MIL-STD-2045-50000 series, MIL-STD-2045-50000 to MIL-STD-2045-59999 inclusive, will be used to describe how DOD will implement commercial, international, national, federal, or military standards within the functional profile concept to provide required network services. The Government Open Systems Interconnection Profiles (GOSIP) will serve as the base for developing the 50000 series with DOD enhancements, unique military standards, and interim standards being used only when necessary. The difference between MIL-STD-2045-10000 series and the MIL-STD-2045-50000 series is that the 50000 series are interim profiles.

Specific details and instructions for establishing a MIL-STD-2045 document, as well as profile development guidelines, are documented in MIL-HDBK-829. DTMP Working Groups shall be responsible for DSP development and informal Service or Agency coordination; the DTMP Plenary shall be responsible for final review and approval.
This document was produced as an outgrowth of a requirement established for transmitting digital imagery and imagery related products using the National Imagery Transmission Format Standard (NITFS), and is intended to be a file transfer profile for end systems to communicate over DOD or commercial circuits.

This part of MIL-STD 2045-17508 contains one normative and one informative annex.

Annex A (normative)	DSPICS Requirements List for MIL-STD 2045-17508-6 (AFT3)
Annex B (informative)	Concluding Material

This document is a DSP for transmission of digital imagery using a file transfer protocol. It is in addition to the current Taxonomy and Framework for International Standardized Profiles.

The current technical content of the document has been derived from ISO 8571, parts 1 through 4. However, this document is based on DOD requirements. Differences between the content of this document and the base standards may exist.

For DOD acquisition purposes, where such differences exist, this DSP shall be the controlling document.

The Preparing Activity for this standard is the Data Communication Protocol Standards Technical Management Panel (DTMP). The custodians for the document are identified in the Defense Standardization Program, "Standardization Directory (SD-1)" and are classified in the Federal Supply Classification (FSC) system under Data Communication Protocol Standards (DCPS). Additional information can be obtained from:

Joint Interoperability and Engineering Organization
ATTN: DTMP Chairman
Ft. Monmouth, New Jersey 07703-5613

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Introduction

This DOD Standardized Profile (DSP) is defined within the context of functional standardization, in accordance with the principles specified by ISO/IEC TR 10000, “Framework and Taxonomy of International Standardized Profiles” and MIL-HDBK-829. The context of functional standardization is one part of the overall field of Information Technology (IT) standardization activities - covering base standards, profiles, and registration mechanisms. A profile defines a combination of base standards that collectively perform a specific well-defined IT function. Profiles standardize the use of options and other variations in the base standards to promote system interoperability and to provide a basis for the development of uniform, internationally recognized system tests.

One of the most important roles for a DSP is to serve as the basis for the development of recognized tests. DSPs also guide implementors in developing systems that fit the needs of the US Department of Defense (DoD). DSPs are produced not simply to ‘legitimize’ a particular choice of base standards and options, but to promote real system interoperability. The development and widespread acceptance of tests based on this and other DSPs is crucial to the successful realization of this goal.

The base standards of this DSP include Open Systems Interconnection (OSI) Layer Standards from the OSI Reference Model.

The specification in this part of MIL-STD 2045-17508 covers management of files between the filestore of two end systems, using the OSI connection-mode Transport Service to provide the interconnection.

Information Technology - DOD Standardized Profile (DSP) AFT1(D) - File Transfer, Access, and Management - Part 6: AFT3 - File Management Service

1 Scope

1.1 General

This part of MIL-STD 2045-17508 (AFT3) covers management of files between the filestores of two end systems, using the OSI connection-mode Transport Service to provide the interconnection. One end system acts in the initiator role and initiates the file management, the other end system acts in the Responder role and provides management of the file in the Virtual Filestore.

These role combinations and the interoperability are shown in table 1.

Table 1 - Interoperable configurations

		Initiator		Responder	
		Sender	**Receiver**	**Sender**	**Receiver**
Initiator	**Sender**				**x**
	Receiver			**x**	
Responder	**Sender**		**x**		
	Receiver	**x**			

This part of MIL-STD 2045-17508 specifies implementations that support file management, i.e. the ability to

a) create and delete a file;

b) read and change the attributes of a file.

This part of MIL-STD 2045-17508 *shall be implemented in conjunction with MIL-STD 2045-17508 part 3.* It only addresses the file management related items not addressed in part 3.

This part of MIL-STD 2045-17508 specifies how the OSI FTAM Application Layer standard shall be used to provide the functions defined above. It does not specify total system capability. In particular, a system may operate this Profile and at the same time engage in other communications. The requirements placed on an implementation in this part of MIL-STD 2045-17508 are solely those necessary for operation of the protocol specified.

This part of MIL-STD 2045-17508 describes the actions and attributes of the Virtual Filestore, and the service

provided by the file service provider to file service users together with the necessary communications between the Initiator and the Responder.

1.2 Position within the taxonomy

This part of MIL-STD 2045-17508 is the fourth part of a multipart DSP for AFT1n(D) File Transfer, Access and Management. The multipart DSP consists of the following parts:

Part 1: Specification of ACSE, Presentation, and Session Protocols for use by FTAM

Part 2: Definition of documents types, constraint sets and syntaxes

Part 3: Simple File Transfer Service (unstructured)

Part 6: File Management Service

It may be combined with any T-Profiles (see ISO/IEC TR 10000) specifying the OSI connection-mode transport service.

1.3 Scenario

The model used is one of two end systems establishing an association and managing files in the Responder's Responder's Virtual Filestore as shown in figure 1.

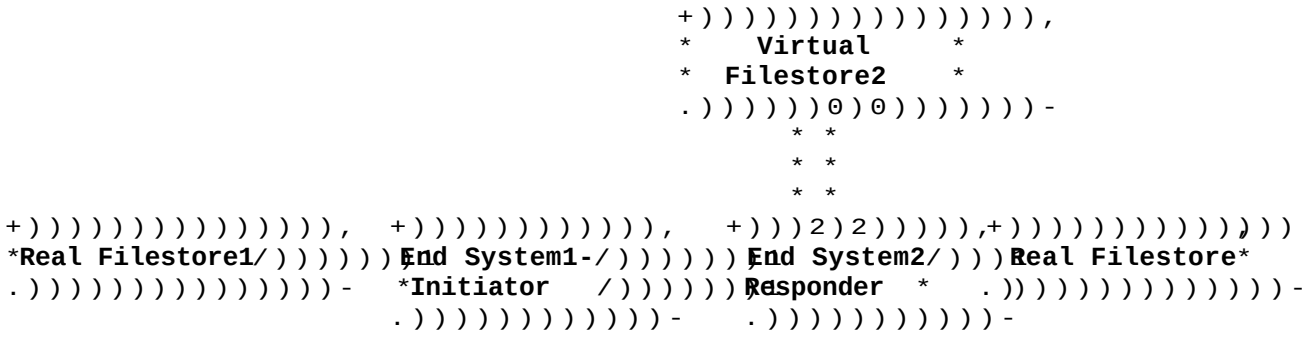

Figure 1 - File transfer between two end systems

Specifications of this part of MIL-STD 2045-17508 apply on the double lines of figure 1. The mapping between the Virtual Filestore and the Real Filestore together with the local data management system is not part of this part of MIL-STD 2045-17508.

This part of MIL-STD 2045-17508 defines the selection of specific Virtual Filestore options, file service options and file protocol options. The required functions from the supporting protocol stack of ACSE, Presentation, and Session are specified in MIL-STD 2045-17508-1 (see also table 2).

Table 2 - Profile Stack

Application Layer	**ISO 8571** **ISO 8650**
Presentation Layer	**ISO 8824, 8825** **ISO 8823**
Session Layer	**ISO 8327**

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of this part of MIL-STD 2045-17508. At the time of publication, the editions indicated were valid. All documents are subject to revision, and parties to agreements based on this part of MIL-STD 2045-17508 are warned against automatically applying any more recent editions of the documents listed below, since the nature of references made by DSPs to such documents is that they may be specific to a particular edition.

Amendments and corrigenda to the base standards referenced: See annex A for a complete list of these documents which are used in this part of MIL-STD 2045-17508.

2.1 Government Documents:

2.1.1 Specifications, standards, and handbooks.

The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

None.

DOD activities may obtain copies of DOD directives through their own publication channels or from the DOD Single Stock Point, Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. Other federal agencies and the public may purchase copies from the U.S. Department of Commerce, National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

Copies of Federal Information Processing Standards (FIPS) are available to Department of Defense activities from the Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120-5099. Others must request copies of FIPS from the National Technical Information Services, 5285 Port Royal, Springfield, VA 22161-2171.

2.1.2 Other Government documents, drawings, and publications.

The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

None.

2.2 Non-Government publications

The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted are those listed in the issue of the DODISS cited in the solicitation.

2.2.1 Profiles

ISO/IEC ISP 10607-1: 1990, Information technology - International Standardized Profiles AFTnn - File Transfer, Access and Management - Part 1:Specification of ACSE, Presentation and Session Protocols for the use by FTAM.

ISO/IEC ISP 10607-2: 1990, Information technology - International Standardized Profiles AFTnn - File Transfer, Access and Management - Part 2:Definition of document types, constraint sets and syntaxes

ISO/IEC ISP 10607-3: 1990, Information technology - International Standardized Profiles AFTnn - File Transfer, Access and Management - Part 3 : AFT11 - Simple File Transfer Service (unstructured).

(Application for copies of these documents should be addressed to the American National Standards Institute, 11 West 42nd Street, NY, NY 10036 or to ISO, Van Demonstrate 94, 1013 CN Amsterdam, Netherlands.)

2.2.2 Base Standards

ISO 8571-1: 1988, Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 1:General introduction.

ISO 8571-2: 1988, Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 2: Virtual Filestore definition.

ISO 8571-3: 1988, Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 3:File Service Definition.

ISO 8571-4: 1988, Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 4:File Protocol Specification.

ISO 8571-5: 1990, Information processing systems - Open Systems Interconnection - File Transfer, Access and Management - Part 5:Protocol Implementation Conformance Statement Proforma.

2.2.3 Other Non-Government documents, drawings, and publications.

The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted are those listed in the issue of the DODISS cited in the solicitation.

ISO 8327: 1987, Information processing systems - Open Systems Interconnection - Basic Connection Oriented Session Protocol Specification.

ISO 8650: 1988, Information processing systems - Open Systems Interconnection - Protocol specification for the Association Control Service Element.

ISO 8823: 1988, Information processing systems - Open Systems Interconnection - Connection Oriented Presentation Protocol Specification.

(Application for copies of these documents should be addressed to the American National Standards Institute, 11 West 42nd Street, NY, NY 10036 or to ISO, Van Demonstrate 94, 1013 CN Amsterdam, Netherlands.)

[1)]To be published

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3 Definitions

For the purposes of this part of MIL-STD 2045-17508, the following definitions apply.

Terms used in this part of MIL-STD 2045-17508 are defined in the referenced base standards.

In addition, the following terms are defined.

3.1 General

Interwork: to be able to communicate to satisfy the intent of the Initiator.

3.2 Support level

To specify to support level of protocol features for this part of MIL-STD 2045-17508, the following terminology is defined.

supported; m: Any feature denoted by "m" is mandatory or optional in the base standard. That feature shall be supported, i.e. its syntax and procedures shall be implemented as specified in the base standard or in this part of MIL-STD 2045-17508 by all implementations claiming conformance to this part MIL-STD 2045-17508.

However, it is not a requirement that the future shall be used in all instances of communication, unless mandated by the base standard or stated otherwise in this part of MIL-STD 2045-17508.

For fully supported attributes, this implies that at least the minimum range of attribute values, as defined in ISO 8571-2, shall be supported unless stated otherwise in this part of MIL-STD 2045-17508.

NOTES

1 For features which are optional in the base standard, conformant implementations shall be able to interwork with other implementations not supporting this feature.

2 The support of a feature can be conditional, depending on the support of a class of features to which it belongs, e.g. a parameter in a PDU, a PDU in a functional unit.

optionally supported; o: Any feature denoted by "o" is left to the implementation as to whether that feature is implemented or not.

If an attribute group with a support level of "o" is chosen to be implemented, then all the attributes in this group that are classified as "m" shall be supported.
If a parameter is optionally supported, then the syntax shall be implemented, but it is left to each implementation whether the procedures are implemented or not.

When receiving an optional parameter which is not subject of negotiation and is not supported by the Receiver, the Receiver shall at least inform the Sender by information diagnostic and interworking shall not be disrupted.

conditionally supported; c: Any feature denoted by "c" shall be supported under the conditions specified in this part of MIL-STD 2045-17508. If these conditions are not met, the feature is outside the scope of this part of MIL-STD 2045-17508.

excluded; x: Any feature denoted by "x" is excluded in this part of MIL-STD 2045-17508, i.e. it shall not be implemented.

outside the scope; i: Any feature denoted by "i" is outside the scope of this part of MIL-STD 2045-17508, i.e. it may be ignored, and will therefore not be subject of an DSP conformance test. However, the syntax of all parameters of supported PDUs shall be implemented, even if the procedures are not (i.e. the Receiver shall be able to decode the PDU).

not applicable; -: Any feature denoted by "-" is not defined in the context where it is mentioned, e.g. a parameter which is not part of the respective PDU. The occurrence of n"not applicable" features is mainly due to the format of the tables in the DSPICS Requirements List.

4 Abbreviations and Acronyms

ACSE Association Control Service Element
DSP Defense Standardized Profile
DSPICS DSP Implementation Conformance Statement
FTAM File Transfer, Access and Management
OSI Open Systems Interconnection
PICS Protocol Implementation Conformance Statement

Definitions and abbreviations used in MIL-STD 2045-17508-6, annex A are defined in ISO 8571.

Support level for protocol features:

m supported
o optionally supported
c conditionally supported
x excluded
i outside the scope
- not applicable

5 Conformance

This part of MIL-STD 2045-17508 states requirements upon implementations to achieve interworking. A claim of conformance to this part of MIL-STD 2045-17508 is a claim that all requirements in the relevant base standards are satisfied, and that all requirements in the following clauses and in annex A are satisfied. Annex A states the relationship between these requirements and those of the base standards.

5.1 Conformance principles

An implementation claiming conformance to MIL-STD 2045-17508 shall make available a PICS stating support or non-support of each option identified in this part of MIL-STD 2045-17508.

5.2 FTAM layer conformance

This part of MIL-STD 2045-17508 specifies implementation options or selections such that conformant implementation will satisfy the conformance requirements of ISO 8571.

Implementations conforming to this part of MIL-STD 2045-17508 shall implement all the supported (m) features (identified in annex A), unless they are part of an unimplemented optional feature. They shall state which optionally supported (o) features are implemented (including a list of supported diagnostics).

6 Virtual filestore

The support for file and filestore characteristics, file actions, attribute groups and attributes is as specified in the annex A of the related part of MIL-STD 2045-17508.

7 File protocol

Annex A summarizes the characteristics of the file protocol regarding only that functionality which is specified in addition to that of the related part of MIL-STD 2045-17508.

7.1 Service classes, functional units

The functions as described in this DSP shall always be implemented in conjunction with part 3 of MIL-STD 2045-17508. The service classes and functional units that shall be implemented are specified in clauses A.12.4 and A.12.5 of ISP 10607-6.

For an implementation supporting this DSP in conjunction with part 3 of MIL-STD 2045-17508, any of the service classes T, M of (T, M, TM) may be requested and any of the classes T, M, TM may be responded on F-INITIALIZE.

7.2 Implementation information

No additional requirements.

ANNEX A (normative)

DSPICS REQUIREMENTS LIST

for MIL-STD 2045-17508-6 (AFT3)

A.1 Introduction

This document provides the DoD Standardized Profile Implementation Conformance Statements (DSPICS) Requirements List (DPRL) for implementations of MIL-STD 2045-17508-6. The DSPICS for an implementation is generated by completing the DPRL in accordance with the following instructions.

An implementation shall satisfy the mandatory conformance requirements of the base standards referenced in this profile.

An implementation's completed DPRL is called the DSPICS. The DSPICS states which capabilities and options of the protocol have been implemented. The following can use the DSPICS:

(a) the protocol implementor, as a checklist to reduce the risk of failure to conform to the standard through oversight.

(b) the supplier and acquirer or potential acquirer of the implementation, as a detailed indication of the capabilities of the implementation, stated relative to the common basis for understanding provided by the standard DSPICS proforma.

(c) the user or potential user of the implementation, as a basis for initially checking the possibility of inter-working with another implementation (note that, while inter-working can never be guaranteed, failure to internetwork can often be predicted from incompatible DSPICSs).

(d) a protocol tester, as the basis for selecting appropriate tests against which to assess the claim for conformance of the implementation.

A.1.1 Notation

The following notations and symbols from ISP 10607 are used in the DPRL to indicate the basis for selection of options:

D	- As defined in the base standard
P	- As defined in MIL-STD 17508
I	- Initiator
R	- Responder
_	- underline indicates change from ISP 10607 selection

Example:

Protocol Element/Parameter	D	P	Range of Values or Reference
FTAM unstructured text abstract syntax	**o**	**o**	

The following notations and symbols from MIL-HDBK 829, which references ISO/IEC TR 10000-1 and -2, are used in the DPRL to indicate the status of features:

Status Symbols

m	- mandatory
m.<n>	- support of every item of the group labeled by the same numeral <n> required, but only one is active at a time
o	- optional
o.<n>	- optional, but support of at least one of the group of options labeled by the same numeral <n> is required
c	- conditional
-	- non-applicable (i.e. logically impossible in the scope of the profile)
x	- excluded or prohibited
i	- out of scope of profile (left as an implementation choice)

In addition, the symbol "●" is used to indicate an option whose status is not constrained by the profile (status in the base standard). The o.<n> notation is used to show a set of selectable options (i.e., one or more of the set must be implemented) with the same identifier <n>.

Two character combinations may be used for dynamic conformance requirements. In this case, the first character refers to the static (implementation) status, and the second refers to the dynamic (use); thus "mo" means "mandatory to be implemented, optional to be used."

Notations for Conditional Status

The following predicate notations are used:

<predicate>:: This notation introduces a group of items, all of which are conditional on <predicate>.

<predicate>: This notation introduces a single item which is conditional on <predicate>.

In each case, the predicate may identify a profile feature, or a boolean combination of predicates. ("^" is the symbol for logical negation.)

<index>: This predicate symbol means that the status following it applies only when the DPICS states that the features identified by the index are supported. In the simplest case, <index> is the identifying tag of a single DPICS items. The symbol <index> also may be a Boolean expression composed of several indices.

<index>:: When this group predicate is true, the associated clause should be completed.

Notations used in the Protocol Feature Column

<r> Symbol used to denote the receiving system.
<t> Symbol used to denote the transmitting system.

Support Column Symbols

The support of every item as claimed by the implementor is stated by circling the appropriate answer (Yes, No, or N/A) in the support column:

Yes Supported by the implementation.
No Not supported by the implementation.
N/A Not applicable.

Base standard requirements are shown using the equivalent notations in upper case (e.g., M, O, X).

A.1.2 Footnotes

Footnotes to the proforma are indicated by superscript numerals. The footnote appears on the page of the first occurrence of the numeral. Subsequent occurrences of a numeral refer to the footnote of the first occurrence.

A.1.3 Instructions for Completing the DPRL

A DSP implementor shows the extent of compliance to a DSP by completing the DPRL; that is, compliance to all mandatory requirements and the options that are not supported are shown. The resulting completed DPRL is called a DSPICS. Where this profile refines the features of the base standards, the requirements expressed in this DPRL shall be applied (as indicated in DPRL items with no "Profile Support" column) to constrain the allowable responses in the base standard DPICS proforma. When this profile makes additional requirements, the "Profile Support" column for such DPRLs shall be completed. In this column, each response shall be selected either from the indicated set of responses, or it shall comprise one or more parameter values as requested. If a conditional requirement is inapplicable, use the Not Applicable (NA) choice. If a mandatory requirement is not satisfied, exception information must be supplied by entering a reference Xi, where i is a unique identifier, to an accompanying rationale for the noncompliance. When the profile requirement is expressed as a two-character combination (as defined in A.1.1 above), the response shall address each element of the requirement; e.g., for the requirement "mo," the possible compliant responses are "yy" or "yn."

A.1.4 Standards Referenced

This AF profile covers transfer of files between filestores of two end systems, using the OSI connection-mode Transport Service to provide the interconnection. It uses the following standards:

ISO 8650 Protocol specification for the Association Control Service Element.
ISO 8327 Basic Connection Oriented Session Protocol Specification.
ISO 8823 Connection Oriented Presentation Protocol Specification.

A.2 DSPICS Requirements List

The following tables give the DPRL for specification of transfers of files between two end systems.

Section 1: No additional requirements

Section 2: General ISO 8571 Detail

A.3 ISO 8571 Protocol versions

See related part of MIL-STD 2045-17508

A.4 ISO 8571 Addenda

ISO 8571-1	**-**
ISO 8571-2	**-**
ISO 8571-3	**-**
ISO 8571-4	**-**
ISO 8571-5	**-**

A.5 Defect report numbers and amendments

See annex B **in ISP 10607-6**

A.6 Global statement of conformance

Does MIL-STD 2045-17508 conform to ISO 8571?	**yes**

A.7 Initiator/Responder capability

See related part of MIL-STD 2045-17508

A.8 Application context name details

See related part of MIL-STD 2045-17508

Section 3 : Syntax Detail

A.9 Abstract syntaxes

See related part of MIL-STD 2045-17508

Section 4 : Virtual Filestore Detail

A.10 Virtual filestore

See related part of MIL-STD 2045-17508

Section 5 : File Protocol Detail

A.11 File protocol

See related part of MIL-STD 2045-17508

A.11.1 GraphicString support

No additional requirements.

A.11.2 FTAM regime establishment

No additional requirements.

A.11.3 FTAM regime termination (orderly)

See related part of MIL-STD 2045-17508

A.11.4 FTAM regime termination (abrupt) by service user

See related part of MIL-STD 2045-17508

A.11.5 FTAM regime termination (abrupt) by service provider

See related part of MIL-STD 2045-17508

A.11.6 File selection

See related part of MIL-STD 2045-17508

A.11.7 File deselection

See related part of MIL-STD 2045-17508

A.11.8 File creation

No additional requirements.

A.11.9 File deletion

No additional requirements.

A.11.10 Read attributes

	D	I	D	R	
F-READ-ATTRIB PDU	c	c	c	c	see A.11, A.12.5
FIELD NAME					RANGE OF VALUES OR REFERENCE
Action result			m	m	all values defined in ISO 8571
Attribute names	m	m			
Attributes			o	m	see A.10
Diagnostic			o	m	see A.12.6, 7.3 (in ISP 10607-3)

A.11.11 Change attributes

	D	I	D	R	
F-CHANGE-ATTRIB PDU	c	o	c	o	see A.11, A.12.5
FIELD NAME					RANGE OF VALUES OR REFERENCE
Action result			m	m	all values defined in ISO 8571
Attributes	m	m	o	m	see A.10
Diagnostic			o	m	see A.12.6, 7.3 (in ISP 10607-3)

A.11.12 File Open

No additional requirements.

A.11.13 File close

No additional requirements.

A.11.14 Beginning of grouping

See related part of MIL-STD 2045-17508

A.11.15 End of grouping

See related part of MIL-STD 2045-17508

A.11.16 Regime recovery

No additional requirements.

A.11.17 Locate file access date unit

No additional requirements.

A.11.18 Erase file access data unit

No additional requirements.

A.11.19 Read bulk data

No additional requirements.

A.11.20 Write bulk data

No additional requirements.

A.11.21 End of data transfer

No additional requirements.

A.11.22 End of transfer

No additional requirements.

A.11.23 Cancel data transfer

No additional requirements.

A.11.24 Restart data transfer

No additional requirements.

A.12 Expanded PDU field and filestore detail

This clause identifies further PDU field and filestore detail to expand on that given in clauses A.11.

A.12.1 Implementation information detail

See clause 7.2

A.12.2 Access control detail

See related part of MIL-STD 2045-17508

A.12.3 Access control element detail

A.12.3.1 Action list detail (initiator)

No additional requirements.

A.12.3.2 Action list detail (responder)

No additional requirements

A.12.3.3 Concurrency access term

No additional requirements.

A.12.3.4 Identity term

No additional requirements.

A.12.3.5 Initiator access passwords

See related part of MIL-STD 2045-17508

A.12.3.6 Responder access passwords

No additional requirements.

A.12.3.7 Location term

No additional requirements.

A.12.3.7.1 Application Entity Titles detail

No additional requirements.

A.12.3.8 Access control element combinations

See related part of MIL-STD 2045-17508

A.12.4 Service class field detail

No additional requirements.

A.12.5 Functional unit field detail

AFT3 in conjunction with part 3 MIL-STD 2045-17508 FUNCTIONAL UNITS	SERVICE CLASSES Transfer D I R	Management D I R	Transfer Management D I R
Kernel	m m m m m m m m m m		
Read	c o o	____	c o o
Write	c o o	____	c o o
File Access	____	____	____
Limited file Management	o o o	m m m	
Enhanced File Management	o o o	o o o	o o o
Grouping	m m m m m m m m m m		
FADU Locking	____	____	____
Recovery	o m m	o m m o m m	
Restart data transfer	o m m	o m m o m m	

No additional requirements.

A.12.6 Diagnostic field detail

See related part of MIL-STD 2045-17508

A.12.7 Contents type detail

See related part of MIL-STD 2045-17508

A.12.8 FTAM Quality of service details

See related part of MIL-STD 2045-17508

A.12.9 Details of shared ASE information

No additional requirements.

A.12.10 Details of charging

See related part of MIL-STD 2045-17508

A.12.11 Filestore password detail

See related part of MIL-STD 2045-17508

A.12.12 Create password detail

See related part of MIL-STD 2045-17508

A.12.13 Concurrency control

A.12.13.1 Supported values

No additional requirements.

A.12.13.2 Responder default values

See related part of MIL-STD 2045-17508

A.12.14 FADU locking

No additional requirements.

A.12.15 Initiator override

See related part of MIL-STD 2045-17508

A.12.16 Requested access

Action	D	I	R
Read attribute	o	c	c
Change attribute		o	c	c
Delete file	o	o	o

NOTE - For other values see related part of MIL-STD 2045-17508

A.12.17 Processing mode

No additional requirements.

A.12.18 Recovery mode

No additional requirements.

Section 6: Document Types

A.13 Document types

See related part of MIL-STD 2045-17508

ANNEX B (informative)

CONCLUDING MATERIAL

B.1 Deviations from Base Standards/Referenced Profiles

PART 6, ANNEX A, Table A.11.10
LAYER: APPLICATION

Protocol Element/Parameter	Base(D)	ISP	DSP(I/R)
Read Attributes			
F-READ-ATTRIB PDU	c	m	c

Rationale: This parameter was made conditional to support limited file management. of a file to be read.

PART 6, ANNEX A, Table A.11.11
LAYER: APPLICATION

Protocol Element/Parameter	Base(D)	ISP	DSP(I/R)
Change attributes			
F-CHANGE-ATTRIB PDU	c	m	m

Rationale: This parameter was made conditional to support limited file management. of a file to be read.

PART 6, ANNEX A, Table A.12.5
LAYER: APPLICATION

Protocol Element/Parameter	Base(D)	ISP	DSP(I/R)
Functional unit field detail			
Enhanced File Management	o	m	o

Rationale: Required to allow the implementor to decide whether to allow enhanced file management.

PART 6, ANNEX A, Table A.12.16
LAYER: APPLICATION

Protocol Element/Parameter	Base(D)	ISP	DSP(I/R)
Requested access			
Read attribute	o	m	c
Change attribute	o	m	c
Delete file	o	m	o

Rationale: Required to allow the implementor to decide whether to implement the requested access. For the NITF application, additional security measures may be required before implementing some of these parameters.

B.2 Subject Term (Keyword) Listing

Communication Protocol Standards
Data Communications
Functional Profiles
Interoperability
Application
File transfer
Standards

B.3 Preparing Activity

DISA-JIEO (Project DTMP-0004)

B.4 Reviewing Activities

Army :	SC, PT
Air Force:	13, 17, 29, 33, 90
DLA:	DH
DMA:	MP
DIA:	DI
DOT:	OST
NSA:	NS
OASD:	IQ, DO, IR
ODISC4:	AC
NAVY:	EC, CH, ND, TD, OM
USMC:	MC, CG

B.5 Custodians

DISA:	DC
Army:	SC
Air Force:	90
Navy:	OM
DIA:	DI
NSA:	NS
USMC:	MC
DLA:	DH
Other:	Joint Staff/Architecture & Integration
	USSPACECOM

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1,2, 3, and 8. In block 1, both the document number and revision letter should be given.
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I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER **MIL-STD 2045-17508-6**	2. DOCUMENT DATE *(YYMMDD)* **94/07**

3. DOCUMENT TITLE **Information Transfer - DOD Standardized Profile AFT1(D) - FTAM Part 6: AFT3 - File Management Service**

4. NATURE OF CHANGE *(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)*

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME *(Last, First, Middle Initial)*	b. ORGANIZATION	
c. ADDRESS *(Include Zip Code)*	d. TELEPHONE *(Include Area Code)* (1) Commercial (2) DSN *(If applicable)*	7. DATE SUBMITTED *(YYMMDD)*

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a. NAME	b. TELEPHONE *(Include Area Code)* (1) Commercial (2) DSN
c. ADDRESS *(Include Zip Code)*	**IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:** Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 DSN 289-2340

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